Task card 1 Completing the Square

Find the value of c that makes $x^2 - 10x + c$ a perfect-square trinomial.

Task card 2 Completing the Square

Write $x^2 - 6x + 1$ in vertex form $(x - h)^2 + k$.

Task card 3 Completing the Square

Solve by completing the square: $x^2 + 8x + 7 = 0$

Task card 4 Completing the Square

Solve by completing the square: $x^2 - 10x - 11 = 0$

Task card 5 Completing the Square

Find the value of c that makes $x^2 - 12x + c$ a perfect-square trinomial.

Task card 6 Completing the Square

Write $x^2 + 6x + 22$ in vertex form $(x - h)^2 + k$.

Task card 7 Completing the Square

Solve by completing the square: $x^2 + 10x - 39 = 0$

Task card 8 Completing the Square

Solve by completing the square: $x^2 - 2x - 80 = 0$

Task card 9 Completing the Square

Find the value of c that makes $x^2 - 2x + c$ a perfect-square trinomial.

Task card 10 Completing the Square

Write $x^2 - 8x + 12$ in vertex form $(x - h)^2 + k$.

Task card 11 Completing the Square

Solve by completing the square: $x^2 - 10x + 16 = 0$

Task card 12 Completing the Square

Solve by completing the square: $x^2 - 18x + 80 = 0$

Task card 13 Completing the Square

Find the value of c that makes $x^2 - 6x + c$ a perfect-square trinomial.

Task card 14 Completing the Square

Write $x^2 - 2x + 2$ in vertex form $(x - h)^2 + k$.

Task card 15 Completing the Square

Solve by completing the square: $x^2 + 6x + 5 = 0$

Task card 16 Completing the Square

Solve by completing the square: $x^2 - 4x - 77 = 0$

Task card 17 Completing the Square

Find the value of c that makes $x^2 - 9x + c$ a perfect-square trinomial.

Task card 18 Completing the Square

Write $x^2 - 8x + 9$ in vertex form $(x - h)^2 + k$.

Task card 19 Completing the Square

Solve by completing the square: $x^2 - 4x - 60 = 0$

Task card 20 Completing the Square

Solve by completing the square: $x^2 + 16x = -55$

Task card 21 Completing the Square

Find the value of c that makes $x^2 + 7x + c$ a perfect-square trinomial.

Task card 22 Completing the Square

Write $x^2 + 20x + 109$ in vertex form $(x - h)^2 + k$.

Task card 23 Completing the Square

Solve by completing the square: $x^2 - 12x - 45 = 0$

Task card 24 Completing the Square

Solve by completing the square: $x^2 - 4x = 5$

Completing the Square Task Cards

Recording sheet · Grade 9 · Answer each question. Write vertex form like (x + 3)^2 - 4 and two solutions like x = -7 or x = 1.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Completing the Square Task Cards: Answer Key

Grade 9 · Medium

The answers online

1. 25	**2.** $(x - 3)^2 - 8$	**3.** x = -7 or x = -1
4. x = -1 or x = 11	**5.** 36	**6.** $(x + 3)^2 + 13$
7. x = -13 or x = 3	**8.** x = -8 or x = 10	**9.** 1
10. $(x - 4)^2 - 4$	**11.** x = 2 or x = 8	**12.** x = 8 or x = 10
13. 9	**14.** $(x - 1)^2 + 1$	**15.** x = -5 or x = -1
16. x = -7 or x = 11	**17.** $\frac{81}{4}$	**18.** $(x - 4)^2 - 7$
19. x = -6 or x = 10	**20.** x = -11 or x = -5	**21.** $\frac{49}{4}$
22. $(x + 10)^2 + 9$	**23.** x = -3 or x = 15	**24.** x = -1 or x = 5